

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number:

10/541,260

Source:

PCT

Date Processed by STIC:

7-12-05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 07/12/2005

PATENT APPLICATION: US/10/541,260

TIME: 10:09:42

Input Set : A:\X16758M.ST25.txt

Output Set: N:\CRF4\07122005\J541260.raw

(pg. 6)

```

3 <110> APPLICANT: Watkins, Jeffry D.
4     Vasserot, Alain P.
5     Marquis , David
6     Huse , William D.
8 <120> TITLE OF INVENTION: TNF-alpha Binding Molecules
10 <130> FILE REFERENCE: X-16758M
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/541,260
C--> 13 <141> CURRENT FILING DATE: 2005-06-30
15 <150> PRIOR APPLICATION NUMBER: 10/338,552
16 <151> PRIOR FILING DATE: 2003-01-08
18 <150> PRIOR APPLICATION NUMBER: 10/338,627
19 <151> PRIOR FILING DATE: 2003-01-08
21 <160> NUMBER OF SEQ ID NOS: 114
23 <170> SOFTWARE: PatentIn version 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 107
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Synthetic Construct
33 <400> SEQUENCE: 1
35 Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys
36 1      5      10      15
39 Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
40      20      25      30
43 Ile His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
44      35      40      45
47 Lys Tyr Ala Ser Glu Ser Met Ser Gly Val Pro Ser Arg Phe Ser Gly
48      50      55      60
51 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala
52 65      70      75      80
55 Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Ser His Ser Trp His Phe
56      85      90      95
59 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
60      100     105
63 <210> SEQ ID NO: 2
64 <211> LENGTH: 321
65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Synthetic Construct
71 <400> SEQUENCE: 2
72 gaaattgtgc tgactcagtc tccagacttt cagtctgtga ctccaaaaga gaaagtcacc 60

```

RAW SEQUENCE LISTING

DATE: 07/12/2005

PATENT APPLICATION: US/10/541,260

TIME: 10:09:42

Input Set : A:\X16758M.ST25.txt

Output Set: N:\CRF4\07122005\J541260.raw

```

74 atcacctgca gggccagtc gttcgttggc tcaagcatcc actggtacca gcagaagcca      120
76 gatcagtctc caaagctcct catcaagtat gcttctgagt ctatgtctgg ggtcccctcg      180
78 aggttcagtg gcagtggatc tgggacagat ttcaccctca ccatcaatag cctggaagct      240
80 gaagatgctg ccacgtatta ctgtcaacaa agtcatagct ggcatttcac gttcggccaa      300
82 gggaccaagg tggaaatcaa a                                     321
85 <210> SEQ ID NO: 3
86 <211> LENGTH: 120
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Synthetic Construct
93 <400> SEQUENCE: 3
95 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
96 1          5          10          15
99 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn His
100          20          25          30
103 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
104          35          40          45
107 Gly Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
108          50          55          60
111 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
112 65          70          75          80
115 Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
116          85          90          95
119 Tyr Cys Ala Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp His Trp Gly Gln
120          100          105          110
123 Gly Thr Leu Val Thr Val Ser Ser
124          115          120
127 <210> SEQ ID NO: 4
128 <211> LENGTH: 360
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Synthetic Construct
135 <400> SEQUENCE: 4
136 gaggtgcagc tgggtggagtc tgggggaggc ttggtccagc ctggagggtc cctgagactc      60
138 tcctgtgcag cctctggatt cactttcagt aaccactgga tgaactgggt ccgccaggct      120
140 ccaggaagg ggctggagtg ggttggcgaa attagatcaa aatctattaa ttctgcaaca      180
142 cattatgcgg agtctgtgaa agggagattc accatctcaa gagatgattc aaagaactca      240
144 ctgtacctgc agatgaacag cctgaaaacc gaggacacgg ccgtgtatta ctgtgctaga      300
146 aattactacg gtagtaccta cgaccattgg ggccaaggga ccctggtcac cgtctcctca      360
149 <210> SEQ ID NO: 5
150 <211> LENGTH: 107
151 <212> TYPE: PRT
152 <213> ORGANISM: Artificial
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Synthetic Construct
157 <400> SEQUENCE: 5
159 Glu Ile Val Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys

```

RAW SEQUENCE LISTING

DATE: 07/12/2005

PATENT APPLICATION: US/10/541,260

TIME: 10:09:42

Input Set : A:\X16758M.ST25.txt

Output Set: N:\CRF4\07122005\J541260.raw

```

160 1           5           10           15
163 Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Phe Val Gly Tyr Ser
164           20           25           30
167 Ile His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile
168           35           40           45
171 Lys Tyr Ala Ser Glu Ser Arg Ser Gly Val Pro Ser Arg Phe Ser Gly
172           50           55           60
175 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala
176 65           70           75           80
179 Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Ser His Ser Trp His Phe
180           85           90           95
183 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
184           100          105
187 <210> SEQ ID NO: 6
188 <211> LENGTH: 321
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Synthetic Construct
195 <400> SEQUENCE: 6
196 gaaattgtgc tgactcagtc tccagacttt cagtctgtga ctccaaaaga gaaagtcacc      60
198 atcacctgca gggccagtc gttcggtggc tatagcatcc actggtacca gcagaagcca      120
200 gatcagtcct caaagctcct catcaagtat gttcttgagt ctaggtctgg ggtcccctcg      180
202 aggttcagtg gcagtggtgc tgggacagat ttcacctca ccatcaatag cctggaagct      240
204 gaagatgctg ccacgtatta ctgtcaacaa agtcatagct ggcatttcac gttcggccaa      300
206 gggaccaagg tggaatcaa a                                     321
209 <210> SEQ ID NO: 7
210 <211> LENGTH: 120
211 <212> TYPE: PRT
212 <213> ORGANISM: Artificial
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Synthetic Construct
217 <400> SEQUENCE: 7
219 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
220 1           5           10           15
223 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Lys Phe Ser Asn His
224           20           25           30
227 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
228           35           40           45
231 Gly Glu Ile Arg Ser Lys Ser Met Asn Ser Ala Thr His Tyr Ala Glu
232           50           55           60
235 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser
236 65           70           75           80
239 Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
240           85           90           95
243 Tyr Cys Ala Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp His Trp Gly Gln
244           100          105          110
247 Gly Thr Leu Val Thr Val Ser Ser
248           115          120

```

RAW SEQUENCE LISTING

DATE: 07/12/2005

PATENT APPLICATION: US/10/541,260

TIME: 10:09:42

Input Set : A:\X16758M.ST25.txt

Output Set: N:\CRF4\07122005\J541260.raw

```

251 <210> SEQ ID NO: 8
252 <211> LENGTH: 360
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Synthetic Construct
259 <400> SEQUENCE: 8
260 gaggtgcagc tgggtggagtc tgggggaggc ttggtccagc ctggagggtc cctgagactc      60
262 tcctgtgcag cctctggatt ccctttcagt aaccactgga tgaactgggt ccgccaggct      120
264 ccagggaagg ggctggagtg ggttggcgaa attagatcaa aatctatgaa ttctgcaaca      180
266 cattatgcgg agtctgtgaa agggagattc accatctcaa gagatgattc aaagaactca      240
268 ctgtacctgc agatgaacag cctgaaaacc gaggacacgg ccgtgtatta ctgtgctaga      300
270 aattactacg gtagtaccta cgaccattgg ggccaaggga ccttggtcac cgtctcctca      360
273 <210> SEQ ID NO: 9
274 <211> LENGTH: 11
275 <212> TYPE: PRT
276 <213> ORGANISM: Artificial
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Synthetic Construct
281 <400> SEQUENCE: 9
283 Arg Ala Ser Gln Phe Val Gly Ser Ser Ile His
284 1          5          10
287 <210> SEQ ID NO: 10
288 <211> LENGTH: 33
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Synthetic Construct
295 <400> SEQUENCE: 10
296 agggccagtc agttcggttg ctcaagcatc cac      33
299 <210> SEQ ID NO: 11
300 <211> LENGTH: 11
301 <212> TYPE: PRT
302 <213> ORGANISM: Artificial
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Synthetic Construct
307 <400> SEQUENCE: 11
309 Arg Ala Ser Gln Phe Val Gly Leu Ser Ile His
310 1          5          10
313 <210> SEQ ID NO: 12
314 <211> LENGTH: 33
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Synthetic Construct
321 <400> SEQUENCE: 12
322 agggccagtc agttcggttg ccttagcatc cac      33
325 <210> SEQ ID NO: 13
326 <211> LENGTH: 11

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/541,260

DATE: 07/12/2005

TIME: 10:09:42

Input Set : A:\X16758M.ST25.txt

Output Set: N:\CRF4\07122005\J541260.raw

```

327 <212> TYPE: PRT
328 <213> ORGANISM: Artificial
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Synthetic Construct
333 <400> SEQUENCE: 13
335 Arg Ala Ser Gln Phe Val Gly Met Ser Ile His
336 1          5          10
339 <210> SEQ ID NO: 14
340 <211> LENGTH: 33
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Synthetic Construct
347 <400> SEQUENCE: 14
348 agggccagtc agttcgttgg catgagcatc cac          33
351 <210> SEQ ID NO: 15
352 <211> LENGTH: 11
353 <212> TYPE: PRT
354 <213> ORGANISM: Artificial
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Synthetic Construct
359 <400> SEQUENCE: 15
361 Arg Ala Ser Gln Phe Val Gly Tyr Ser Ile His
362 1          5          10
365 <210> SEQ ID NO: 16
366 <211> LENGTH: 33
367 <212> TYPE: DNA
368 <213> ORGANISM: Artificial
370 <220> FEATURE:
371 <223> OTHER INFORMATION: Synthetic Construct
373 <400> SEQUENCE: 16
374 agggccagtc agttcgttgg ctatagcatc cac          33
377 <210> SEQ ID NO: 17
378 <211> LENGTH: 11
379 <212> TYPE: PRT
380 <213> ORGANISM: Artificial
382 <220> FEATURE:
383 <223> OTHER INFORMATION: Synthetic Construct
386 <220> FEATURE:
387 <221> NAME/KEY: MISC_FEATURE
388 <222> LOCATION: (8)..(8)
389 <223> OTHER INFORMATION: The residue in this position could be any amino acid
391 <400> SEQUENCE: 17
W--> 393 Arg Ala Ser Gln Phe Val Gly Xaa Ser Ile His
394 1          5          10
397 <210> SEQ ID NO: 18
398 <211> LENGTH: 33
399 <212> TYPE: DNA
400 <213> ORGANISM: Artificial

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/541,260

DATE: 07/12/2005
TIME: 10:09:43

Input Set : A:\X16758M.ST25.txt
Output Set: N:\CRF4\07122005\J541260.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; Xaa Pos. 8
Seq#:18; N Pos. 22,23,24
Seq#:23; Xaa Pos. 5
Seq#:24; N Pos. 13,14,15
Seq#:29; Xaa Pos. 6
Seq#:30; N Pos. 16,17,18
Seq#:31; Xaa Pos. 5,6
Seq#:32; N Pos. 13,14,15,16,17,18
Seq#:41; Xaa Pos. 3
Seq#:42; N Pos. 7,8,9
Seq#:47; Xaa Pos. 7
Seq#:48; N Pos. 19,20,21
Seq#:51; Xaa Pos. 15
Seq#:52; N Pos. 43,44,45
Seq#:75; Xaa Pos. 3
Seq#:76; N Pos. 7,8,9
Seq#:79; Xaa Pos. 7
Seq#:80; N Pos. 19,20,21
Seq#:83; Xaa Pos. 5
Seq#:84; N Pos. 13,14,15

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,73,74,75,76,77,78,79,80,81,82,83,84,87,88,89,90,91,92,93
Seq#:94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113
Seq#:114

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/541,260

DATE: 07/12/2005

TIME: 10:09:43

Input Set : A:\X16758M.ST25.txt

Output Set: N:\CRF4\07122005\J541260.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:1231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
L:1250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0
L:1295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:1314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:1359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
L:1378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0